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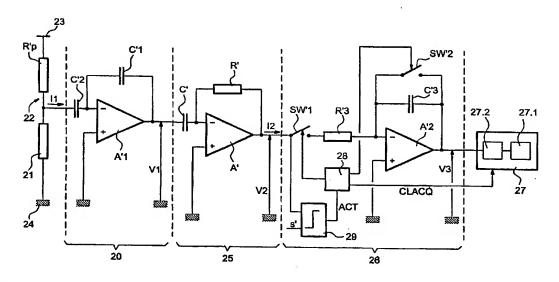
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[Suite sur la page suivante]

(54) Title: ENHANCED PROCESSING CIRCUIT FOR SPECTROMETRY SYSTEM AND SPECTROMETRY SYSTEM USING SAME

(54) Titre: CIRCUIT DE TRAITEMENT AMELIORE POUR CHAINE DE SPECTROMETRIE ET CHAINE DE SPECTROMETRIE UTILISANT UN TEL CIRCUIT



(57) Abstract: The invention concerns a spectrometry system processing circuit comprising a particulate radiation detector (21), including a charge preamplifying stage (20) receiving a current (I1) from the sensor representing an amount of charges emitted by a particle which has interacted with the detector, and an integrator stage (26). A shunt stage (25) is connected between the charge preamplifying stage (20) and the integrator stage (26), the shunt stage (25) receiving a signal (V1) derived from the charge preamplifying stage (20) and delivering to the integrating stage (26) an image signal (V2) of the sensing current (I1), the integrator stage (26) delivering an image (V3) of the amount of charges emitted by a particle having interacted with the detector. The invention is applicable in particular to high-energy single-channel probes.





 avant l'expiration du délai prévu pour la modification des revendications, sera republiée si des modifications sont reçues En ce qui concerne les codes à deux lettres et autres abréviations, se référer aux "Notes explicatives relatives aux codes et abréviations" figurant au début de chaque numéro ordinaire de la Gazette du PCT. A. CLASSIFICATION OF SUBJECT MATTER 1PC 7 G01T1/24 G01T1/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{lem:minimum documentation searched (classification system followed by classification symbols) IPC 7 G01T$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	US 4 727 256 A (KUMAZAWA YOSHIHIKO) 23 February 1988 (1988-02-23) the whole document				
A	US 5 821 538 A (LEBRUN FRANÇOIS ET AL) 13 October 1998 (1998-10-13) column 1, line 9 -column 2, line 55 column 3, line 40 -column 6, line 42 figures 1,2	1-11			
A	US 4 692 626 A (WESTPHAL GEORG P) 8 September 1987 (1987-09-08) column 1, line 5 - line 29 column 3, line 10 -column 4, line 50 column 7, line 50 -column 10, line 13 figures 1,8	1-11			

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filling date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filling date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family 		
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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSID TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α PATENT ABSTRACTS OF JAPAN 1 vol. 2002, no. 06, 4 June 2002 (2002-06-04) -& JP 2002 055171 A (SHIMADZU CORP), 20 February 2002 (2002-02-20) abstract

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